

TATUR, G.K., professor, doktor tekhn.nauk

Generalized stability curve in dimensionless coordinate
systems. Sbor.nauch.trud.Bel.politekh.inst. no.76:
57-62 '59. (MIRA 13:6)
(Strains and stresses)

TATUR, Gennadiy Kuz'mich; KONTSEVAYA, T.V., red.; AKALOVICH, N.M.,
red.; PESTNA, S.A., tekhn. red.

[Course in the strength of materials] Kurs soprotivleniiia ma-
terialov. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo
i professional'nogo obrazovaniia BSSR. Pt.1. 1962. 230 p.
(MIRA 15:9)

(Strength of materials)

LYUBOSHITS, Moisey Il'ich; TATUR, G.K., prof., retsentent; RUDITSYN, M.N., retsentent; TETERINA, L.N., red.; MORGUNOVA, G.M., tekhn. red.

[Geometrical characteristics of a cross section] Geometricheskie kharakteristiki sechenia. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia ESSR, 1962. 132 p. (MIRA 16:2)

1. Zaveduyushchiy kafedroy soprotivleniya materialov Belorus-skogo politekhnicheskogo instituta (for Ruditsyn).
(Geometry)

TATUR, Gennadiy Kuz'mich; KOSTYUKOVETS, F.T., red.

[Course on the strength of materials] Kurs soprotivlenia
materialov. Minsk, Vysshiaia shkola. Pt.2. 1964. 215 p.
(MIRA 17:6)

ARTEMOV, Pavel Yakovlevich; TATUR, G.K., prof., doktor tekhn.
nauk, retsenzent; RABINOVICH, S.V., dots., kand. tekhn.
nauk, nauchn. red.

[Manual on the solution of problems concerning the
determination and calculation of statically indeterminate
bar systems] Rukovodstvo k resheniiu zadach po opredeleniu
peremeshchenii i rascheta staticheski neopredeli-
mykh sterzhnevikh sistem. Minsk, Vysshiaia shkola. 1964.
132 p. (MIRA 17:11)

LYUBOSHITS, Moisey Il'ich; ITSKOVICH, Georgiy Mikhaylovich;
TATUR, G.K., doktor tekhn.nauk, retsenzent; BARANOVSKIY,
N.V., kand. tekhn. nauk, nauchn. red.; LEVINA, S.G., red.

[Manual on the strength of materials] Spravochnik po
soprotivleniiu materialov. Minsk, Vysshaia shkola, 1965.
343 p.
(MIRA 18:5)

TATUR, O.N.

Subject : USSR/Electricity AID P - 1595
Card 1/1 Pub. 27 - 4/27
Authors : Zusman, V. G., Kand. of Tech. Sci., and Tatur, O. N.,
Eng., Moscow
Title : Electromagnetic clutches and their use in machine
construction
Periodical : Elektrichestvo, 3, 16-22, Mr 1955
Abstract : The author enumerates the advantages of the electro-
magnetic clutches as compared with the other types
(crank, hydraulic and pneumatic). They are most
efficient in use in automatic control systems. He
describes various kinds of electromagnetic couplings,
in particular the type in which a ferromagnetic powder
is used as the active element. Eleven photographs,
drawings and diagrams.
Institution: None
Submitted : D 20, 1954

8(0) .

SOV/112-59-5-9061

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 93 (USSR)

AUTHOR: Tatur, O. N.

TITLE: Electromagnetic Clutches

PERIODICAL: V sb.: Elektrooborud. metallorezh. stankov. Nr 1, M.-L.,
Gosenergoizdat, 1958, pp 58-88

ABSTRACT: Construction, characteristics, and catalog data of various electromagnetic clutches is described on the basis of foreign publications. These clutches are examined: with conducting and external disks, with moving and stationary coils, with side and upper disks, with slip-ring and contactless current supply, and also single-disk clutches with 1 or 2 friction surfaces, clutches with built-in rectifiers, and brake-type clutches with a spring-type engagement. Examples of electromagnetic-clutch application in machines for starting, braking, reversing, and speed changing in gear boxes and feed mechanisms are cited. An electric circuit of a preselective control for a feed

Card 1/2

SOV/112-59-5-9061

Electromagnetic Clutches

mechanism is given, as well as application of the clutches to cyclic-automatic hydro duplicating machines and feed control. Advantages and disadvantages of the above constructions are listed. A description and characteristics of new materials for friction nonmetallic (metal-ceramic) and metallic disks are presented. Design, application, and characteristics of power-type clutches and cam-type clutches are described. Fifty-four illustrations.

Bibliography: 23 items..

N.S.B.

Card 2/2

TATUR, O. N.

p. 3.

S/105/60/000/05/24/028
B007/B008

AUTHOR: Sud, I.I., Engineer

TITLE: In the Komissiya po elektroprivodu i nizkovol'tnoy apparature GNTK Soveta Ministrov SSSR (Commission for Electric Drives and Low-voltage Apparatus of the State Scientific and Technical Committee at the Council of Ministers of the USSR)

PERIODICAL: Elektrichestvo, 1960, No. 5, pp. 86-88

TEXT: The meeting of the Komissiya po elektroprivodu i nizkovol'tnoy apparature GNTK SSSR (Commission for Electric Drives and Low Voltage Apparatus of the State Scientific and Technical Committee of the USSR) was held under the chairmanship of I.I. Petrov, Professor, Doctor of Technical Sciences, from December 21-22, 1959. The meeting dealt with the state and coordination of the studies in the field of electric drives, as well as with problems of the development of a centralized production of electromagnetic clutches. Delegates from works, scientific research- and planning institutions and schools of higher learning participated in the work of the Commission. The main problems of the scientific research work in the field of electric drives were outlined in the

Card 1/4

In the Komissiya po elektroprivodu i nizkovol'tnoy
apparature GNTK Soveta Ministrov SSSR (Commission for
Electric Drives and Low-voltage Apparatus of the State
Scientific and Technical Committee at the Council of
Ministers of the USSR)

S/105/60/000/05/24/028
B007/B008

data submitted by I.I. Petrov, Professor, Doctor of Technical Sciences,
A.V. Basharin, Professor, Doctor of Technical Sciences (LETI (Leningrad
Electrotechnical Institute)) and A.B. Chelyustkin, Candidate of Technical Sciences
(IAT AN SSSR (Institute of Automation and Telemechanics of the AS USSR)). The
Commission stated that the fact that research work is not comprehensive is
one of the main deficiencies reflected in publications on electric drives. The
Commission recommended the following measures: new electrotechnical products
must be developed as unit assemblies and series. Controllable economic a.c.
drives with frequency control must be built. A variation of motors with heat-
resisting insulation for increased switching-on frequency must be developed
on the basis of the standard series of induction motors with squirrel-cage rotor.
The system: controlled mercury-arc rectifier - motor is to be worked out for
reversible electric drives. Comprehensive installations must be developed for
contactless control of electric drives, large semiconductor rectifiers, semi-
conductor rectifier - motor systems, series of symmetrical and asymmetrical

Card 2/4

In the Komissiya po elektroprivodu i nizkovol'tnoy
apparature GNTK Soveta Ministrov SSSR (Commission for
Electric Drives and Low-voltage Apparatus of the State
Scientific and Technical Committee at the Council of
Ministers of the USSR)

S/105/60/000/05/24/028
B007/B008

nonlinear semiconductor resistors for control circuits of electric drives,
primary pickups for the control of the position of machined workpieces and
the working organs of machine tools, pickups for electric and nonelectric
quantities et al. The VNIEM (All-Union Scientific Research Institute of
Electromechanics) takes over the role of leading organization and is respon-
sible for the coordination of investigations in the field of the electric
drive. Engineer O.N. Tatur (ENIMS (Experimental Scientific Research Institute
of Metal-cutting Lathes)) reported on "Prospects for the Development of a
Centralized Production of Electromagnetic Clutches." Engineer T.A. Glazenko
reported on "Ferromagnetic Powder Clutches and Their Application to Automatic
Electric Drive Systems." The series of multiplate ferromagnetic powder clutches
manufactured by the "Elektrostanok" Works does not satisfy the demand of
machine tool construction. A heavy multiplate clutch with contactless current
feed for a torsional moment of 630 kgm was developed in 1959 and a series of
quick-acting multiplate clutches for 2.5 - 40 kgm is being developed at present.
Ferromagnetic powder clutches are being tested in automobile construction,

Card 3/4

In the Komissiya po elektropriyodu i nizkovol'tnoy
apparature GNTK Soveta Ministrov SSSR (Commission for
Electric Drives and Low-voltage Apparatus of the State
Scientific and Technical Committee at the Council of
Ministers of the USSR)

S/105/60/000/05/24/028
B007/B008

experimental specimens of such clutches are being developed for excavators.
The Commission recommended to organize an industrial base for a centralized
production of ferromagnetic powder clutches. Such clutches for moments of from
0.5 to 1600 kgm are to be developed. The ENIMS was ordered to work out the
relevant standard designs. The Institut elektromekhaniki AN SSSR (Institute
of Electromechanics of the AS USSR), the VEI, the TsINTI, the NAMI and the
VNIIstroydormash are mentioned in addition to the above Institutes.

Card 4/4

TATUR, O.N., inzh.; FLIDLIDER, G.M., inzh.

Dynamic characteristics of high-speed electromagnetic
clutches. Vest. elektroprom. 34 no.7:13-20 Jl '63.
(MIRA 16:8)

IL'ICHEV, Dmitriy Dmitriyevich; TATUR, Oleg Nikolayevich;
FLIDLIDER, Grigoriy Maksovich. Prinimal uchastiye EDEMSKII,
V.M.; ANOSOV, Yu.O., red.; CHILIKIN, M.G., prof., red.

[Systems with electromagnetic clutches] Sistemy s elektro-
magnitnymi muftami. Moskva, Energiia, 1965. 96 p.
(MIRA 18:3)

ORATSIANOV, Yu.A., kand.tekhn.nauk; POLYAK, D.G., kand.tekhn.nauk;
PUTIMTSEV, B.N., inzh.; TATAR, O.N., inzh.

Manufacture and characteristics of ferromagnetic powders
for electromagnetic powder clutches and brakes. Elektrotekhnika
36 no.11:42-47 N '65.
(MIRA 18:11)

I 22917-54 501 FEB 1981 820741 1965 1965 1965 1965

ORG: none

TITLE: Production¹⁸ and characteristics of ferromagnetic powders for magnetic fluid ¹⁶ ⁵⁹ ^B clutches and brakes

SOURCE: Elektrotehnika, no. 11, 1965, 42-47

TOPIC TAGS: ferromagnetic material, iron, iron alloy, molten metal, induction furnace, annealing, magnetic permeability, clutch

ABSTRACT: A method is developed for producing ferromagnetic powders of iron and iron alloys for use in magnetic fluid clutches and brakes. The metal is melted in an induction furnace and a stream of the molten metal is vaporized in a gas jet with a ring nozzle using compressed nitrogen.¹⁷ Studies show that the stream of liquid metal must be intensely dispersed by a strong jet of inert gas to produce fine particles with the proper density. The resultant powder is subjected to reduction annealing at 1120°C for four hours in a vacuum furnace. The resulting particles have a density of 7.0 g/cm³. The physical properties of the powders, these ferromagnetic powders show high magnetic permeability in strong magnetic fields. Tests with magnetic fluid clutches showed that the powders are highly stable with respect to operating characteristics.

Orig. off. has: 6 figures, 1 formula, and 3 tables. (JFM)

SUB CODE: 13, 20 / SUBM DATE: none

Card 1/1 UDC: 621.3.042.15.001.5

KUNYAVSKIY, M.P., kandidat ekonomicheskikh nauk, redaktor; TATUR, P.K.
kandidat tekhnicheskikh nauk, redaktor; BONDARENKO, M.N., redaktor;
PIKKHASOV, Ya.B., tekhnicheskiy redaktor

[Manual for machine-tractor station engineers and organizers of land
use] Spravochnik inzhenera-zemleustroitelia MTS. Pod obshchel red.
M.P.Kuniavskogo i P.K.Tatur. Tashkent, Gos. izd-vo UzSSR, 1955. 342 p.
(MIRA 9:8)

1. Uzbek S.S.R. Ministerstvo sel'skogo khozyaystva. Upravleniye
zemleustroystva.
(Agricultural engineering)

TATUR, P.K., kand.tekhn.nauk, dotsent

Distribution and planning of farm buildings and livestock
sections on the collective farms of irrigated regions in the Uzbek
S.S.R. Trudy TIIIMSKH no.1:181-219 '55. (MIRA 15:4)

1. Kafedra planirovki i blagoustroystva sel'skokhozyaystvennykh
naselennykh punktov Tashkentskogo instituta inzhenerov irrigatsii
i mekhanizatsii sel'skogo khozyaystva.
(Uzbekistan—Collective farms—Management)

TATUR, P.K.

Basic problems in planning the sections of state cotton farms in
the Golodnaya Steppe. Mat. po proizv. srl. Uzb. no.15:389-
409 '60.
(MIRA 14:8)

1. Tashkentskiy institut inzhenerov irrigatsii i mekhanizatsii
sel'skogo khozyaystva.
(Golodnaya Steppe—State farms)

BIALYNICKI-BIRULA, I.; SNIATYCKI, J.; TATAR, S.

Functional methods in the Thirring model. *Bul. Ac. Pol. mat.* 11 no. 7&479-482 '63.

1. Institute of Theoretical Physics, University, Warsaw.
Presented by L. Infeld.

ACC NR: AN7002252

SOURCE CODE: UR/9014/67/000/018/0004/0004

AUTHOR: Karpenko, V. (Special correspondent of Pravda Vostoka); Tatur, S. (Special correspondent of Pravda Vostoka)

ORG: none

TITLE: Studies of Antarctica

SOURCE: Pravda vostoka, no. 18, 21 Jan 67, p. 4, cols. 5-6

TOPIC TAGS: geophysic expedition, meteorologic expedition

ABSTRACT: The 12th Soviet antarctic expedition is on its way to Antarctica. The last group, made up of 73 people; is headed by G. I. Mel'nicuk, a meteorologist, who was with the station "Severnyy polyyus-3." He said that Antarctica is a free territory, open for scientists of all countries. Any military activity there is forbidden by international law. At present, there are four stationary stations on that continent: Mirnyy; Molodezhnaya; Vostok; and Novo-Lazarevskaya. Because of the snow, the main base is being transferred from Mirnyy to Molodezhnaya. The most difficult station is still Vostok, which is 3400m above sea level. People working there say that it is not only necessary to work slowly, but also to think slowly. Incidentally, it is there that the world's lowest temperature of minus 87° was recorded. As regards the observations, they will be meteorological, geophysical (Earth magnetism, ionosphere, propagation of radiowaves), glaciological (study of the

Card 1/2

ACC NR: AN7002252

ice cover of the continent), and geological. For the first time, there will be some important medical research. Scientists are interested in the influence of Antarctica on the life activity and psychology of man. This year the Arctic and Antarctic Institute will publish the second volume of the Antarctica Atlas. This expedition, as was the last, is being organized by the Administration of the Hydro-meteorological Service of the USSR. The head of the Novo-Lazarevskaya station O. K. Sedov, Candidate of Geophysical Sciences, said that the station will have 14 people, including meteorologists, aerologists, mechanics, doctors, and a microbiologist (R. Tashpulatov). Meteorologist G. A. Khlopushin, a veteran of 30 years' experience, then described some of his past achievements. [NC]

SUB CODE: 08/ SUBM DATE: none/ ATD PRESS: 5110

Card 2/2

PROTOPOPOV, S.N.; TATUR, S.K., prof., doktor ekonom. nauk, red.; KOCHETOV, A.A., red.; POSHESHLIN, I.P., tekhn. red.

[Accounting for reconstruction works] Uchet vosstanovitel'nykh rabot. Pod red. S.K.Tatura. Moskva, Gos. fin. izd-vo, 1946. 93 p.
(MIRA 14:8)
(Construction industry—Accounting)

MITYUSHKIN, T.S.; TATUR, S.K., doktor ekonom.nauk, red.; SULKOVSKAYA,
M.A., red.; OHLIOVA, V.V., tekhn.red.

[Analysis of the economy of machine-tractor stations] Analiz
khoziaistvennoi deiatel'nosti MTS. Pod red. S.K.Tatura. Moskva,
Gos.ind-vo sel'khoz.lit-ry, 1947. 247 p. (MIRA 13:1)
(Machine-tractor stations)

TATUR, S.

33976 TATUR, S. Lichnyye schyeta
Ekonomii --Novaya Forma Sotsiali-
Stichyeskogo Soryevnovaniya I,
Khozyaystvennogo Raschyeta (V Prom-
Yshlyennosti) Voprosy Fkonomiki
1949, No. 10, S. 16-26

SO: Letopis' Zhurnal'nykh Statey, Vol. 42, Moskva, 1949

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120004-6

TATUN, Sergei Koz'mich.

Analysis of business enterprise. Moskva. Moskovskii rabochii, 1949. 39 p.
(V pokoshch' slushateliam vechernikh partiinykh shkol) (50-19808)

HF5550.T3

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120004-6"

TATUR, S. K.

Industry - Finance

Useful book on profit and independent financing ("Independent financing and profit; ways to strengthen independent financing in industrial enterprises." S. K. Tatur. Reviewed by M. Dmitryev, I. Poklad). Prof. soiuzy No. 5, '52.

9. Monthly List of Russian Accessions, Library of Congress, August 1952 1663, Uncl.

TATUR, Sergei Koz'mich

Business accounting in socialist state enterprises Moskva, Znanie, 1953. 39 p.
(Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii Ser. 2, no 78)
(54-28354)

HD37.T282

TATUR, Sergey Koz'mich.

Khozyaystvennyy raschet v sotsialisticheskikh gosudarstvennykh predpriyatiyakh
[Economic accounting in socialistic state enterprises] Moskva, Finaniye, 1953.

39 p.

Bibliographical footnotes.

SO: N/5
783.303
.T21

TATUR, SERGEY KOZ'MICH.

N/5
752.2
.T2

KAK ANALIZIROVAT' VYPOLNENIYE PLANA PO VYPUSKI PRODUKTSII /HOW TO ANALYZE
THE FULFILLMENT OF A PLAN ON THE OUTPUT OF PRODUCTION/ MOSKVA, GOSFINIZDAT, 1954.
102 P. TABLES.
BIBLIOGRAPHICAL FOOTNOTES.

MAZDOROV, V.; TATUR, S., redaktor; KONDRAT'YEV, A., redaktor; LEKHDEV, A., tekhnicheskiy redaktor.

[Analysis of labor productivity and the disbursement of the wage fund]
Analiz proizvoditel'nosti truda i raskhodovaniia fonda zarabotnoi platy. Moskva, Gosfinizdat, 1954. 79 p. (MLRA 8:4)
(Labor productivity) (Wages)

TATUR, Sergei Kuz'mich.

[Analysis of the fulfillment of the work and wage plan in industrial enterprises] Analiz vypolneniya plana po trudu i zarabotnoi plate na promyshlennom predpriatii. Moskva, Znanie, 1955. 47 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i nauchnykh znanii. Seria 2 no.53).

(MLRA 9:4)

(Industrial management)

TATUR, Sergey Kuz'mich; GARIBOVA, M.V., redaktor; MIKHAYLOVA, T.A., tekhnicheskij redaktor

[Organization of the national economy accounting in a socialist society] Organizatsiya narodno-khoziaistvennogo ucheta v sotsialisticheskem obshchestve. Moskva, Izd-vo Moskovskogo universiteta, 1955. 35 p.
(Accounting) (MIRA 8:6)

TATUR, SERGEY KUZ'MICH

N/5
752.2
.T21

TATUR, SERGEY KUZ'MICH

OSNOVY ANALIZA EKONOMIKI PREDPRIYATIYA (ANALYSIS OF PRINCIPLES OF
ECONOMIC ENTERPRISES) MOSKVA, MOSKOVSKIY RABOCHIY, 1956.

82 P. TABLES.

BIBLIOGRAPHICAL FOOTNOTES.

TATUR, S., prof.

Development of the theory of the analysis of the management
of enterprises in the last 40 years. *Bukhg.uchet* 14 [i.e.16]
no.10:45-53 O '57. (MIRA 10:10)
(Industrial management)

TATUR, S. K.

TITCHENKO, Maksim Pavlovich; L'VOV, Sergey Grigor'yevich; KAPLAN, Aron Izrailevich; PEROV, Viktor Yakovlevich; KALLISTOV, Nikolay Grigor'yevich; TATUR, S.K., prof., doktor ekon. nauk, otv.red.; KAZ'MINA, R.A., red.; MARKOCH, K.G., tekhn.red.

[Accounting; and analysis of the balance sheet in the communications system] Bukhgalterskii uchet i analiz balansa v khoziaistve sviazi. Pod red. S.K. Tatura. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1958. 357 p. (MIRA 12:1)
(Communication and traffic--Accounting)

BAKANOV, M.I., prof.; TATUR, S.K., prof.; KOPNYAYEV, V.P.; MASSARYGIN,
F.S.; SHEREMET, A.D.; TIMOFEEV, S.P.; MEDYLN, S.I.; KONDRAT'YEVA,
A., red.; TELEGINA, T., tekhn.red.

[Course in the analysis of administrative operations] Kurs analiza
khoziasistvennoi deiatel'nosti. Moskva, Gosfinisdat, 1959. 480 p.
(MIRA 13:4)
(Industrial management)

TATUR, Sergey Koz'mich

[Business accounting in industry] Khoziaistvennyi raschet pro-myshlennosti. Moskva, Gosfinizdat, 1959. 255 p.
(Industrial management) (MIRA 13:11)

RAZUMOV, Ippolit Mikhaylovich, prof., doktor ekonom.nauk; SHUKHGOR'TER, Lev Yakovlevich, dotsent, kand.tekhn.nauk; TEPLOV, Georgiy Vasil'yevich, prof., doktor ekonom.nauk; TATUR, Sergey Kuz'mich, prof., doktor ekonom.nauk; KATSENBOGEN, Boris Yakovlevich, dotsent, kand.tekhn.nauk [deceased]; LETENKO, Viktor Aleksandrovich, dotsent, kand.ekonom.nauk; MURAV'IEV, Mikhail Semenovich, dotsent, kand.tekhn.nauk; KOMAROV, F.V., inzh., retsenzent; METT, G.Ya., dotsent, red.; SALYANSKIY, A.A., red.izd-va; SOKOLOVA, T.F., tekhn. red.; SMIRNOVA, G.V., tekhn.red.

[Organizing and planning machinery plants] Organizatsiia i planirovaniye mashinostroitel'nykh predpriiatii. Pod red. I.M.Razumova i L.IA. Shukhgal'tera. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1960. 491 p.

(Machinery industry)

(MIRA 13:6)

LAMYKIN, Ivan Alekseyevich; TATUR, S.K., prof., red.; KHROMOVA, Ye.A.,
red.; YERMAKOV, M.S., tekhn.red.

[Analysis of collective-farm economy; a brief course of lectures]
Analiz khoziaistvennoi deiatel'nosti kolkhozov; kratkii kurs
lektseii. Pod red. S.K.Tatura. Moskva, Izd-vo Mosk.univ., 1960.
85 p. (MIRA 13:7)
(Collective farms--Accounting)

MITYUSHKIN, Timofey Sergeyevich; TATUR, S.K., doktor ekonom.nauk, red.; LAPIDUS, M.A., red.; PEVZNER, V.I., tekhn.red.; TRUKHINA, O.N., tekhn.red.

[Analysis of the economic aspects of socialist agricultural enterprises] Analiz khoziaistvennoi deiatel'nosti sotsialisticheskikh sel'skokhoziaistvennykh predpriatii. Pod red. S.K. Tatura. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 279 p.

(MIRA 13:11)

(Agriculture--Accounting)

TATUR, Sergey Kuz'mich, prof.; MASSARYGIN, Fedor Sergeyevich, dotsent;
SHEREMET, Anatoliy Danilovich, kand.ekonom.nauk; KHROMOVA, Ye.A.,
red.; YERMAKOV, M.S., tekhn.red.

[Analysis of the administrative operations of socialist industrial enterprises; concise course] Analiz khoziaistvennoi deiatel'nosti sotsialisticheskikh promyshlennnykh predpriatii; kratkii kurs.
Pod red. S.K.Tatura. Izd.2. Moskva, Izd-vo Mosk.univ.. 1960.
186 p. (MIRA 13:12)

(Finance) (Industrial management)

SIBIRYAKOV, Leonid Yefimovich; VEYTSMAN, N.R., prof., red.; TATUR, S.K.,
prof., red.; SHCHENKOV, S.A., prof., red.; IVANOV, N.N., red.;
TITOV, K.M., red.; NIKOL'SKIY, A., red.; TZLEGINA, T., tekhn.red.

[Accounting for the utilization of materials in production]
Uchet ispol'zovaniia materialov v proizvodstve. Moskva, Gos-
finizdat, 1961. 81 p. (MIRA 15:4)
(Accounting) (Materials)

TATUR, Sergey Kuz'mich, doktor ekonom. nauk; KANTER, A.I., red.; NAZAROVA,
A.S., tekhn.red.

[How wages are paid to the workers of industrial enterprises] Kak
oplachivaetsia trud rabotnikov na promyshlenniykh predpriyatiakh.
Moskva, Izd-vo "Znanie," 1961. 38 p. (Narodnyi universitet kul'tury:
Fakultet tekhniko-ekonomiceskii, no.6) (MIRA 14:11)
(Wage payment systems)

SHEREMET, Anatoliy Danilovich; TATUR, S.K., prof., ovt. red.; YEFIMOV, O.S.,
red.; LAZAREVA, A.V., tekhn. red.

[Analytical principles of the economics of an industrial enterprise;
an aid to students of applied economics] Osnovy analiza ekonomiki pro-
myshlennogo predpriatiia; v pomoshch' izuchaiushchim konkretnuiu eko-
nomiku. Moskva, Izd-vo Mosk. univ., 1961. 90 p. (MIRA 14:11)
(Chemical industries—Accounting)

SHCHENKOV, Serafim Aleksandrovich, prof.; VEYTSMAN, N.R., prof., red.;
TANUR, S.K., prof., red.; IVANOV, N.N., red.; TITOV, K.M., red.
KORUTKOVA, L., red.; LEBEDEV, A., tekhn. red.

[Principles of accounting in industry] Osnovy bukhgalterskogo
ucheta v promyshlennosti. Moskva, Gosfinizdat, 1962. 97 p.
(MIRA 15:6)

(Accounting)

TATUR, Sergey Kuz'mich; SMIRNOV, Ye.I., red.; GERASIMOVA, Ye.S.,
tekhn. red.

[Analysis of the administrative operations of industrial
enterprises] Analiz khoziaistvennoi deiatel'nosti pro-
myshlennnykh predpriatii. Moskva, Ekonomizdat, 1962. 229 p.
(MIRA 16:7)

(Industrial management)

TATUR, S., prof.

Several problems of business accounting and strengthening the
finances of enterprises. Fin. SSSR 23 no.10:19-28 0 '62.
(MIRA 15:10)

(Finance) (Industrial management)

TATUR, S.

Problems in further developing and strengthening business
accounting in industry. Vop.ekon. no.4:53-63 Ap '63.
(MIRA 16:4)
(Finance)

TATUR, Sergey Kuz'mich, prof.; PERESLEGIN, V.I., otv. red.

[Business accounting in industry] Khoziaistvennyi ra-s-
chet v promyshlennosti. Izd.2., dop. Moskva, Izd-vo
"Finansy," 1964. 302 p. (MIRA 17:5)

37235
S/144/62/000/002/002/007
D289/D301

24,200

AUTHOR: Tatur, Tat'yana Andreyevna, Candidate of Technical Sciences, Docent

TITLE: Calculating the surface effect in ferromagnetic laminae with rectangular loop and magnetic viscosity on a digital computer

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika, no. 2, 1962, 129 - 135

TEXT: In magnetization of ferromagnetic cores with rectangular hysteresis loop in strong fields, there is a time lag between the external field and the flux density. The non-linear equation defining this, shown originally by K.M. Polivanov, contains B, H and their derivatives. V.L. Dyatlov has shown that magnetic viscosity is defined by

$$\frac{\partial B}{\partial t} = r_m \left(1 - \frac{B^2}{B_s^2}\right) (H - H_c) \quad (1)$$

Card 1/3

S/144/62/000/002/002/007
D289/D301

Calculating the surface effect ...

where B - flux density; H - field; H_c - coercive field; r_m - const.
The author considers magnetization from rest characterized by remanent density - E_r and saturation density B_s and, using Maxwell's equations and Eq. (1), obtains Eq.

$$\frac{\partial Q}{\partial t} = a(Q) \frac{\partial^2 Q}{\partial x^2} - g(Q) \quad (13)$$

where $a(Q)$ and $g(Q)$ are functions of flux density. The author describes numerical solution of Eq. (13) on digital computer type M2, for three toroidal cores and shows the results as graphs of the distribution of B in space and time coordinates. The thicknesses of the three cores were 2, 0.2, 0.2 cm with the core dielectric permittivities of 10^2 , 10^2 , 10^5 and the core specific conductivities of 10^{-3} , 10^{-3} , 10^{-4} ohm $^{-1}$ cm $^{-1}$ respectively. The results confirm that in magnetization of ferrite cores with rectangular hysteresis loops in the strong fields the surface effect is not apparent, but appears with large dielectric permittivity of the core material.

Card 2/3

Calculating the surface effect ...

S/144/62/000/002/002/007
D289/D301

This confirms analytic investigations by M.G. Vitkov. There are 9 figures.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute)

SUBMITTED: March 10, 1961

4

Card 3/3

TATUN, T. A. Card. Tech. Sci.

Dissertation: "Methods for Calculation of Steady Currents in Linear Systems at Non-sinusoidal Periodic Voltages." Moscow Order of Lenin Power Engineering Institute
V. M. Molotov, 20 Jun 47.

SG: Yechernyaya Moskva, Jun, 1947 (Project #17836)

TATUR, T. A.

42280: TATUR, T. A. - Raschet ustoyivshikhsya tekov v lineynikh elektricheskikh sistemakh pri nesinnsoidal'nykh periodicheskikh napryazheniyakh. Trudy Mosk. energet. in-ta im. Molotova, Vyp. 3, 1948, s. 163-69.

SO: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948

POLIVANOV, K.H., professor, doktor tekhnicheskikh nauk; TATUR, T.A., dotsent,
kandidat tekhnicheskikh nauk.

Relation between the coefficients A,B,C,D, of different simple
quadripoles formed from the same circuit with four terminals and
the complete characteristic of this circuit. Trudy MBI no.14:78-90
'53. (Electric networks) (MIRA 8:7)

Fedorov F. A.
TATYU, F. A.

"Computation of a Transient System in a Linear Circuit,"
pp 16-22, ill, 9 ref

Abst: A new method is presented of calculation of transients leading to a simple and convenient final formula for the cases of zero and nonzero initial conditions and nonmultiple roots of characteristic equations. By applying this formula, it is possible easily to determine the transients for a number of problems encountered in calculation of pulse circuits.

SOURCE: Trudy Moskovskogo Energeticheskogo In-ta im. V. I. Molotova
MVO SSSR (Works of the Moscow Energetics Institute imeni V. I. Molotov
of the Ministry of Higher Education USSR), No 18, Electric Vacuum Technology
and Instrument Building, Moscow-Leningrad, Gosenergizdat, 1956

Sum 1854

TATUR, T.A., kandidat tekhnicheskikh nauk, dotsent.

Calculation of transient conditions in linear circuits. Trudy MEI
no.18:40-46 '56. (MIRA 10:1)

1. Kafedra teoreticheskikh osnov elektrotehniki.
(Electric circuits)

8(3)

SOV/112-59-1-553

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1, p 72 (USSR)

AUTHOR: Perekalin, M. A., and Tatur, T. A.

TITLE: Heating of Steel Beams in the Field of Heavy-Current Conductors at Electric Stations

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Energetika, 1958, Nr 3, pp 40-45

ABSTRACT: Temperature rise of steel beams due to eddy currents in them has been investigated depending on two parameters: distance to the current-carrying conductors and the phase-to-phase spacing. A heat-balance differential equation has been set up and solved. From the expressions obtained, the beam maximum-temperature Θ_{max} curves have been plotted as a function of the ratio of beam perimeter to its cross-section F/S for different values of parameters and a current of 11,000 amp. Θ_{max} increases with increasing F/S, with decreasing the beam-conductor distance "a," and with increasing the phase-to-phase spacing τ . For a 3-phase line with the wires

Card 1/2

SOV/112-59-1-553

Heating of Steel Beams in the Field of Heavy-Current Conductors at Electric . . .
in one plane and with $F/S = 4$, $a = 30$ cm, and $\tau = 100$ cm, the temperature
 $G_{max} = 420^{\circ}\text{C}$.

V.V.M.

Card 2/2

PEREKALIN, M.A., prof.; TATUR, T.A., kand. tekhn. nauk, dots.

Heating of concrete reinforcement in the field of electric
conductors. Izv. vys. ucheb. zav.; energ. no.4:54-60 Ap '58.
(MIRA 11:6)

1. Moskovskiy ordena Lenina energeticheskiy institut.
(Induction heating)

TATUR, T.A., kand.tekhn.nauk, dotsent

Methods for calculating steady-state conditions in a linear
electric circuit with nonsinusoidal periodic input voltage.
Trudy MEI no.27:23-33 '58. (MIRA 13:4)
(Electric transformers)

S/194/61/000/009/014/053
D222/D302

9/7/00

AUTHOR:

Tatur, T.A.

TITLE:

Calculating the surface effects in viscous rectangular-loop ferromagnetic films, applicable in digital computers

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 9, 1961, 30, abstract 9 B221 (V sb. Vses. Mezhvuz. konferentsiya po teorii i metodam rascheta nelineyn. elektr. tsepey, no. 1, Tashkent, 1960, 88-96) ✓B

TEXT:
Calculation of the surface effects is given, taking account of the dielectric and conductance properties of the ferrite. The equations describing the dynamic properties of the ferrite $\frac{\partial B_{av}}{\partial t} = r_m(1 - B_{av}^2/B_s^2)(H_e - H_{st})$ are solved in conjunction with the Maxwell equations for the film, whose thickness is much less than its width. Here B_{av} is the average magnetic induction over

Card 1/2

S/194/61/000/009/014/053
D222/D302

Calculating the surface effects...

the section of the film, H_{st} is the starting magnetic field intensity, and r_m is a constant depending on B_{av} . The non-linear parabolic differential equation of the second order resulting from the calculation is solved by the method of finite differences. 4 figures. 5 references. *[Abstracter's note: Complete translation]* ✓B

Card 2/2

ZATUR, T.A.

Use of computers with discrete action for calculating the surface effect in a ferromagnetic tape with a rectangular hysteresis loop and viscosity. Izv. vys. ucheb. zav.; elektromekh. 5 no.2:129-135 '62. (MIRA 15:3)
(Magnetic recorders and recording) (Electronic calculating machines)
(Cores (Electricity))

TATUR, Tat'yana Andreyevna, kand.tekhn.nauk, dotsent

Calculation of the magnetization of toroidal ferrite cores with
rectangular hysteresis loop and viscosity using automatic digital
computers. Izv. vys. ucheb. zav.; elektromekh. 6 no.1:3-10
'63. (MIRA 16:5)

1. Moskovskiy energeticheskiy institut.
(cores (Electricity)) (Magnetic circuits)

TATUR, Tat'yana Andreyevna, kand. tekhn. nauk, dotsent; KRUG, Natal'ya
Karlovna, kand. tekhn. nauk, dotsent

Magnetization of ferromagnetic plates with a rectangular
hysteresis loop and ductility. Izv. vys. ucheb. zav.;
elektromekh. 6 no.10:1141-1150 '63. (MIRA 17:1)

1. Moskovskiy energeticheskiy institut.

RUZINOVA, Yu.G.; TAUBER, I.N.

Disturbances of phosphorus metabolism in patients with funicular myelosis. Vrach. delo no.4:90-93 Ap '61. (MIRA 14:6)

1. Kafedra nervnykh bolezney (zav. - prof. S.N.Savenko) Chernovitskogo meditsinskogo instituta i nevrologicheskoye otdeleniye Chernovitskoy psikhonevrologicheskoy bol'nitsy.
(SPINAL CORD—DISEASES) (PHOSPHORUS METABOLISM)

SAVENKO, S.B.; TAUBER, I.N.

Dynamics of radioactive iodine (I^{131}) absorption by the thyroid gland in multiple sclerosis. Zhur. nevr. i psikh 61 no.8:1146-1149 '61. (MIRA 15:3)

1. Klinika nervnykh bolezney (zav. - prof. S.N. Savenko) Chernovitskogo meditsinskogo instituta na baze Chernovitskoy oblastnoy psikhonevrologicheskoy bol'nitsy (glavnnyy vrach N.F. Chubinets).

(THYROID GLAND) - (IODINE ISOTOPES)
(MULTIPLE SCLEROSIS)

SAVENKO, S.N., prof.; TAUHER, I.N. (Chernovtsy)

Bioelectrical activity of the brain in a disorder of cerebral circulation. Vrach.delo no.10:48-52 O '62. (MIRA 15:10)

1. Kafedra nervnykh bolezney (zav. - prof. S.N.Savenko) meditsinskogo instituta, Chernovtsy.
(ELECTROENCEPHALOGRAPHY) (CEREBROVASCULAR DISEASE)

TAUBER, JAN.

"Zemedelstvi Nemecké demokraticke republiky. [] Vyd. 1. [] Praha, Statni zemedelske
nakl., 1953. 90 p. [] Agriculture in the German Democratic Republic. 1st ed. []
DA Not in DLC

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 7, July 1958

TAUBER, J.

Report on the activities of the Central Commission for Cultural and Educational Work in Agriculture. p. 296. (VESTNIK, Vol. 4, No. 5/6, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

TAUBER, J.

An open letter to scientific workers in agriculture abroad. In English.
p. 111. (ZA SOTSIALISTICHESKUIU SELSKOKHOZIAISTVENNUU NAUKU. SERIJA B:
EKONOMICHESKAIA. FOR SOCIALIST AGRICULTURAL SCIENCE. SERIES B: ECONOMIC,
Vol. 6, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

TAUBER, J.

"Conclusions made at the meeting of the Central Commission on Social and Cultural
Problems in Agriculture"

Vestnik. Praha, Czechoslovakia. Vol. 5, special issue, 1958

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

TAUBER, J.

"Problems concerning the development and growth of socialist agriculture. In German"

Za Sotsialisticheskuiu Selkohoziaistvennuiu Nauku. Praha, Czechoslovakia. Vol. 7, no. 2, 1958

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclassified

TAUBER, Jan, doc., dr.

Socialist work brigades and scientific workers. Vest ust
zemedel 10 no.10/11:388-390 '63.

1. Vyzkumny ustav zemedelske ekonomiky, Praha.

TAUBER, Jan, doc. dr.

Problems of agricultural science organization. Vest ust zemedel
ll no. 4:140-142 '64.

CZECHOSLOVAKIA

TAUBER, J., MD.

OUNZ, Decin

Prague, Prakticky lekar, No 18, 1963, p 712

"Experiences with Dispensarization in Circulation."

TAUBER, Julije, sanitetski pukovnik dr

Organization of dento-oral services in modern war. The role of dento-
oral services in military medical care. Vojnosanit. pregl. 19 no.10:
675-678 0 '62.

1. Vojna Bolnica u Skopju, Stomatolosko odeljenje.
(DENTISTRY) (SURGERY, ORAL) (MILITARY MEDICINE)

TAUBER, M.

I.
37492. Elektrovulkanizatsionnyy apparat tk-2. [Konstruktsiya m. taubera ~~ta~~ V. Karpukhina]. 'Automobil', 1949, No. 11, s. 18-19.

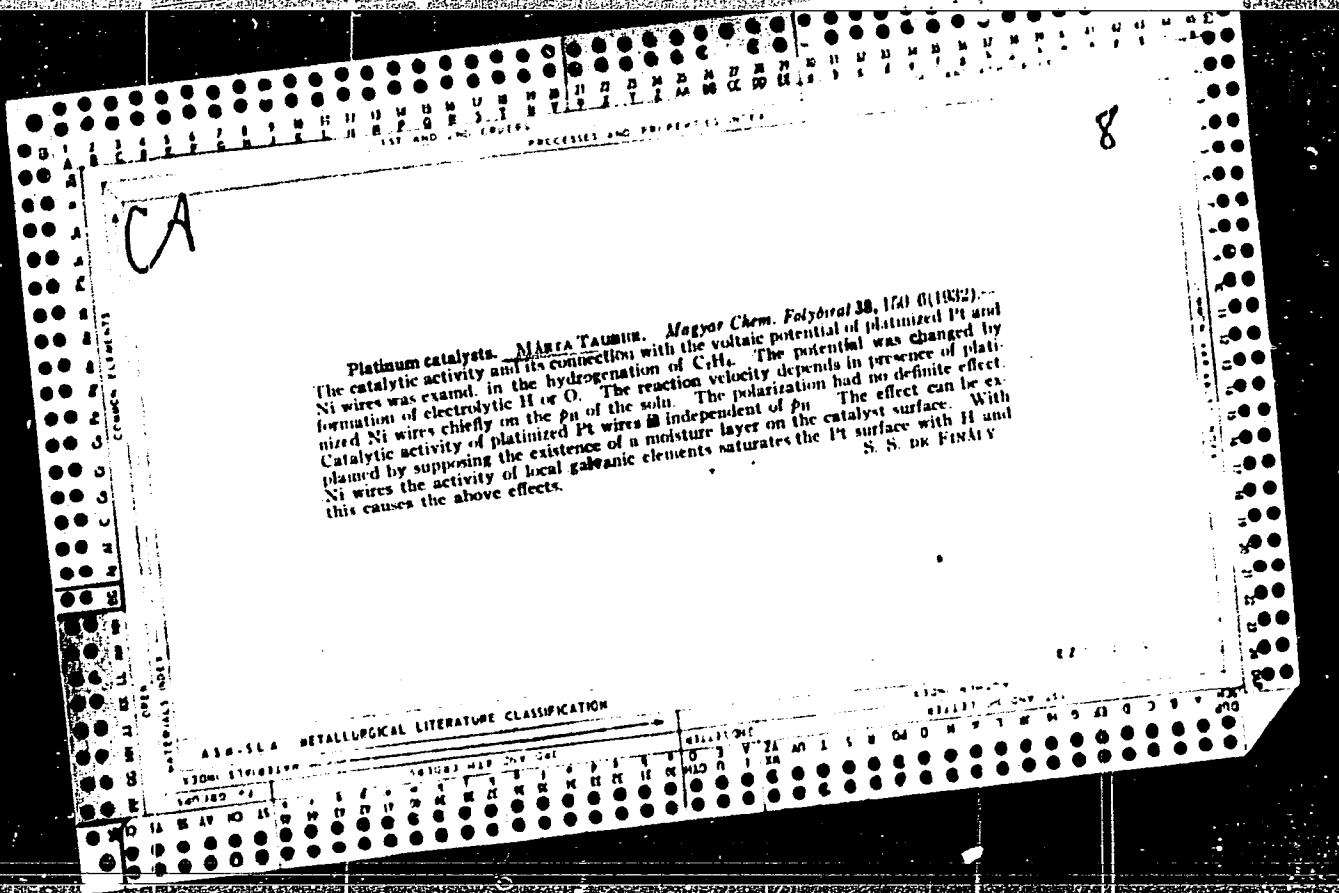
SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

TAMER, M.

FRIED, A.; SRDINKA, V.; TAUBER, M.

Cholelithiasis and gastric chemistry. Gastroenterologia bohema 4
(CIML 20:5)
no.2-4;216-220 Oct 50.

1. J.Jessenius and Marie Curie Sanatorium (Head--Andrej Fried,
M.D.) of the Czechoslovak State Spa (General Director--R.Bures,
M.D.) in Karlove Vary.



TAUBER, M. I.

Organization of hauling by automobile in construction work Moskva, Gos. izd-vo lit-ry
po stroit. i arkhitekture, 1952. 126 p. (54-17513)

TH900.T3

M. T. Tauber, M.T.

M. T. Tauber's Transportation by Truck in the Building Industry; a book review. p. 392

(KOZLEKEDESTUDOMANYI SZEMLE, Budapest, Vol. 4, No. 10, Oct. 1954.)

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955,
Uncl.

TAUHER, N.A., mladshiy nauchnyy sotrudnik

Use of the case histories method in the study of marital fertility.
Zdrav.Ros.Feder. 6 no.11:14-17 N '62. (MIRA 15:12)
(FERTILITY,HUMAN) (MARRIAGE)

TAUBER, V. A.

Author: Tauber, V. A.

Title: Assembly welding equipment and mechanisms. (Sborochno-svarochnye
prisposobleniya i mekhanizmy.) 434 pp.

City: Moscow

Publisher: State Sci. and Techn. Publ. House of Literature on Mechanical
Engineering.

Date: 1951

Available: Library of Congress

Sources: Monthly List of Russian Accessions
Vol. 4, No. 6, p. 389

Call N^o: TS227.T3

Subject: Welding.

TAUBER, V.A.

Author: Tauber, V. A.

Title: Assembly welding equipment and mechanisms. (Sborechno-svarochnye
prisposobleniya i mehanizmy.) 414 pp.

City: Moscow

Publisher: State Sci. and Techn. Publ. House of Literature on Mechanical
Engineering.

Date: 1951

Available: Library of Congress

Source: Monthly List of Russian Accessions
Vol. 4, No. 6, p. 389

Call N^o: TS227.T3

Subject: Welding.

GDR/Farm Animals - Swine.

Q-4

Abs Jour : Ref Zhur - Biol., No 18, 1958, 83435
Author : Nehrung, K., Laube, W., Taubert, F.
Inst : -
Title : Investigations Concerned with the Problem of Feeds Being Overgrown by Fungi.
Orig Pub : Z. landwirtsch. Versuchs- und Untersuchungswesen, 1957,
 3, No 1, 76-97.

Abstract : Results of 8 experiments conducted on fattened pigs are presented here. It was determined by analyses that within the process in which feeds become overgrown by fungi, losses of organic substances (10-20 percent) take place, mainly of nitrogenless extractable substances. It was also determined that feeds which were subjected to fungi overgrowth do not present any advantages either in terms of weight gains of the animals, nor in terms of feed costs.

Card 1/1

COCHECI, V.; TAUHERT, R.; WINTER, Fr.

Contributions to phenol elimination from residual waters
resulting from wood distilleries by means of ion-exchangers.
Bul St si Tehn Tim 7:39-43 '62.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120004-6

CCHECI, V.; KIMMEL, E.; PIRVU, I.; TAUBERT, R.; GROPSIAN, R.; COTOSMAN, A.

Obtaining copper oxychloride from the ashes of copper pyrites.
Bul St si Tehn Tim 9 no.2:349-354 Jl-D '64.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755120004-6"

SOV/137 57-11-21691

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 150 (USSR)

AUTHORS: Taubes, G.N., Seredinskiy, Ye. Ye.

TITLE: The Minsk Tractor Plant Employs a Method of Cold Hardfacing by Means of Vibrating-electrode Arc-electrode Arc Welding in a Stream of Electrolyte Fluid (Primeneniye vibrokontaktnoy kholodnoy naplavki metallov v struye elektrolita na Minskom traktornom zavode)

PERIODICAL: V sb.: Mashinostroitel' Belorussii. Nr 1 (2), Minsk, 1956,
pp 161-163

ABSTRACT: A method developed by G. P. Klekovkin (Engineer at the Altay Tractor Plant) for hardfacing of metal by means of vibrating-electrode arc welding in a stream of electrolyte fluid is employed at the plant. This method makes it possible to obtain any desired degree of hardness of the built-up layer, permits depositing an 0.1-2 mm layer of metal in a single pass, and does not produce warping of components. The hardfacing operations are performed with the following equipment: A special, vibrating-contact, automatic welding head which is mounted on the carriage of a lathe; a D-C motor-generator unit with

Card 1/2

SOV/137-57-11-21691

The Minsk Tractor Plant Employs a Method of Cold Hardfacing (cont.)

a nominal rating of 6-12 v, and a welding transformer of the STE type. The component to be worked is mounted in the chuck of the lathe. The vibration of the electrode is accomplished by means of an electromagnetic vibrator. The construction of the welding head ensures constant rotation of the welding rod, controls the vibration and the feed of the electrode, and permits adjusting the angle and position of the electrode for hardfacing of interior and end surfaces. A transformer and an electrostatic generator supply a combination of AC and DC potential impulses to the electrolyte fluid and the component involved. A short-circuit current welds the electrode tip to the surface of the component. The electrode, the exterior of which is cooled by a stream of the electrolyte fluid, breaks away again as a result of the following factors: The formation of a molten nucleus within the electrode; continuous rotation and vibration of the electrode; rotary motion of the component and longitudinal advance of the welding head. Electrode particles which have become bonded to the surface of the part being worked form a uniform layer of built-up metal. The electrolyte fluid consists of a solution of Na_2CO_3 and industrial soap in boiled water. It prevents the molten metal from reacting with O_2 and N_2 , and also serves as a coolant. Past experience has proved the practical value of this method for reconditioning of worn-out machine parts.

V. P.

Card 2/2

RABINOVICH, A.B., inzh.; TAUBIS, I.R., inzh.

Shortcomings of design calculations relative to the protection
of auxiliary equipment connections in electric power plants.
Elek.sta. 32 no.9:59-62 S '61. (MIRA 14:10)

(Electric currents--Grounding)

(Electric power plants--Equipment and supplies)

VERB, A.N., inzh.; RABINOVICH, A.B., inzh.; TAUBES, I.R., inzh.

Concerning T.P.Musatov's article "Saving of control cables." Elek.
sta. 32 no.12:86 D '61. (MIRA 15:1)
(Electric cables) (Musatov, T.P.)

DONSKOY, S.M.; ZEMSKOV, N.Ya.; OSENOV, V.I.; POTAPOV, A.I.;
UDALIKHINA, A.S.; YAROSHUK, D.Ya.; VAYNER, M.S.; VERNYI,
Ye.A.; CHURKIN, D.I.; GERASIMOV, K.A.; ZIBRIN, D.A.;
AYKHENVAL'D, Ye.L.; KOZLOV, A.I.; BULANOV, A.G.;
OSTROVSKAYA, L.N.; TAUHES, I.S.; PETROV, Z.I.; POTEPALEV,
V.A.; PECHONYY, A.D.; TROFIMOVA, A.S., tekhn. red.

[Development of power engineering in the Tatar A.S.S.R.]
Razvitiye energetiki Tatarskoi ASSR. Kazan', Tatarkoe knizhnoe
izd-vo, 1961. 145 p.
(MIRA 15:2)

1. Tatar A.S.S.R. Sovet Narodnogo khozyaystva. Upravleniye
energeticheskoy promyshlennosti.
(Tatar A.S.S.R.—Power engineering)

42661

S/115/62/000/010/001/002
E192/E382

Q.2560

AUTHOR: Taubes, M.R.

TITLE: Semiconductor current-stabilizers for thermocouple
vacuum gauges

PERIODICAL: Izmeritel'naya tekhnika, no. 10, 1962, 23 - 26

TEXT: Measurement of gas pressures from $1 - 1 \times 10^{-3}$ mm Hg can be carried out by thermocouple vacuum gauges. The stability and measurement errors of such gauges are dependent on pressure variations, temperature changes of the surrounding medium, mains-voltage variations and its frequency, which affect the heater current I of the gauge. It is found that in vacuum gauges of this type the current instability amounts to 1.5%, which can result in an instrument error of about 25% or more, depending on the scale. The heater-current instability can be substantially reduced by using stabilizers based on semiconductors. A stabilizer of this type was designed and this is illustrated in Fig. 2. In this, a zener diode Δ_4 ($\Delta = D$) is used to

provide a stable voltage between the base of the amplifier transistor T_3 and the positive terminal of the circuit. The
Card 1/4

S/115/62/000/010/001/002
E192/E382

Semiconductor

voltage across R_{10} and R_{11} and thus the current flowing through them can therefore be regarded as constant. The resistances R_8 and R_9 simulate the resistance of the thermo-couple of the vacuum-gauge tube; in particular, the change in the heater-resistance is simulated by R_9 . The current through R_8 and R_9 is practically the same as that in R_{10} and R_{11} since the base of T_3 receives only a small fraction of the current. When the current through R_8 and R_9 changes, the current through R_{10} and R_{11} is changed correspondingly. The emitter-base voltage of T_3 is thus changed and so is the collector current and the current flowing through R_6 . The current through $T_1 - T_2$ is therefore changed in such a way that the voltage across R_{10} and R_{11} is restored to its initial value. By changing the resistances between the positive

Semiconductor

S/115/62/000/010/001/002
E192/E382

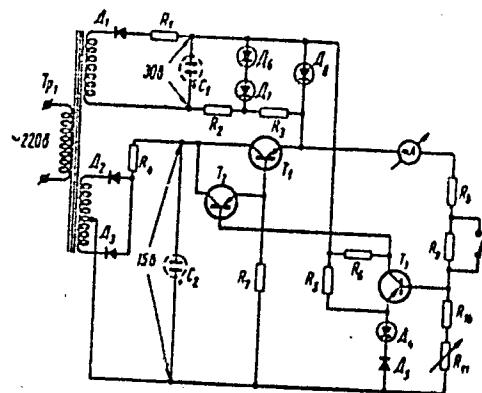
terminal and the base of T_3 , the magnitude of the heater current can be controlled. The zener diode D_4 and the collector of T_3 are supplied from a separate rectifier provided with zener-diode stabilization. The resistances R_1 and R_4 in the rectifiers limit the values of the peak currents and pass through the rectifying diodes. The current instability was reduced to 0.01% by using the above stabilizer, so that the highest relative instrument error did not exceed 3% at 1×10^{-3} mm Hg.
There are 2 figures and 1 table.

Card 3/4

Semiconductor

S/115/62/000/010/001/002
E192/E382

Fig.2.



Card 4/4